MAGMA USER MANUAL v1.0

Description:
Nomad Factory and MFX proudly introduce MAGMA, the next generation of audio effects processing. MAGMA utilizes Virtual Studio Rack (VSR) technology to achieve new levels of creativity and flexibility.

VSR: Virtual Studio Rack Technology
We've all been in recording studios before that are covered wall-to-wall with racks of shiny audio gear. The most enviable racks house preamps, vintage compressors & eq's, reverbs, and multi-FX units that producers and engineers use to achieve that magical sound of a hit record. The only problem is that a rack loaded with gear like that can cost tens-of-thousands of dollars, which is unrealistic for a majority of today's lower budget project studios. What if you could use a plug-in to emulate quality and sonic possibilities of outboard gear, while still maintaining the flexibility of using a patchbay for signal routing? MAGMA's breakthrough Virtual Studio Rack (VSR) technology defies convention by allowing users to stack interchangeable effect FX in an infinite amount of combinations, all in one easy to use plug-in. MAGMA allows you to mix and match effects, create & recall unique chains and process your audio in ways previously unimaginable. When you use MAGMA it's just like having a Virtual Studio Rack with an infinite amount of effects at your fingertips.

Features:
- MAGMA is a Virtual Studio Rack host that allows you to combine an infinite number of audio effects all in four easy to use racks.

- It includes 65 high-quality, custom rack FX that each have their own unique flavor. Categories include:
    - Dynamics
    - Equalizers
    - Pre Amps
    - Distortions
    - Reverbs
    - Delays
    - Modulation Effects and many more!!!
    - These effects will also load as individual plug-ins in your favorite DAW.

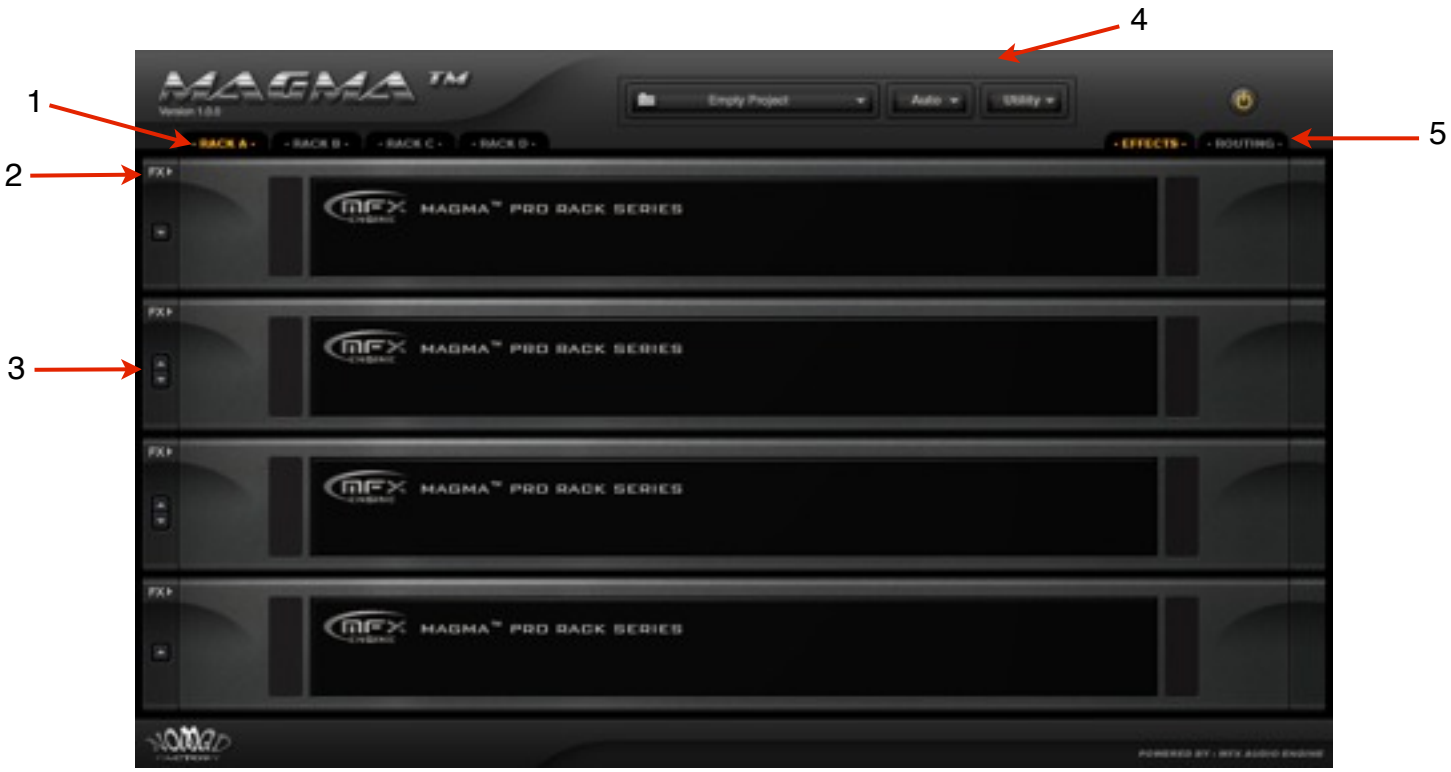
- The ability to interchange racks freely and a flexible routing matrix allows you to build the effect chains of your dreams.

- Take your effects processing to another dimension when you load the special "Chainer" FX to create chains within chains.

- MAGMA will also support 3rd party VST plug-ins in future versions, so you can mix and match your favorite VSTs.

Operation

When you load MAGMA as a plug-in inside your DAW, it will appear as an empty rack. Each Rack contains four empty rack slots.



1. **Rack Selection Tab**

Select one of four different racks (A, B, C, or D) and add FX to the empty slots

2. **FX Selection Menu**

Click on the FX symbol to open a drop-down menu.
- Add FX: Magma FX are categorized by type. Select a plug-in to load it into MAGMA.
- Choose MAGMA FX at the bottom of the menu to see the entire list of Magma FX.

- **Rescan FX List:** Rescans all available plug-in FX. Click this if you want to add more additional FX or add-on packs to MAGMA.

- **Utility:** Among the Utility type plug-ins available in this category, you will find the option to load a *Chainer.* Loading a *Chainer* device allows you to....

- **PG:** Once you load a Rack FX you can access it's presets by clicking on PG.

Note Double-Clicking on any plug-in knob will reset to its default value.

3. **FX Up/Down Buttons**

- Reorders the rack FX by moving them Up or Down. Top and Bottom Rack FX can only be moved Down and Up, respectively.

4. **Presets, Saving, Automation, & Utility Menus**

- **Project Presets Menu:** Click here (Empty Project) to load and save Project Presets which contain multiple racks of FX plug-ins. ***Loading a Project from here will replace FX in all racks.

- **Auto Menu:** Enables Host Automation and MIDI CC control.
    - Host Automation: Allows you to select the MAGMA FX parameter you want to automate within your DAW host.
    - MIDI CC: Allows you to map a MIDI controller. Enable a parameter by selecting it from the list and move a knob or slider on your external MIDI controller.

- **Utility Menu:** Set preferences, Shop for new MAGMA FX, Get updates, or check the User manual.
    - Preferences: You can enable the following preferences by selecting them:
        - Show Configuration Change Alert
        - Display Tempo and Sample Rate
        - Rescan FX at Startup

    - Save Preferences: Preserves all preference settings for future use.

- **Power Button:** Click this button to bypass MAGMA by turning off an on.

- **Project Browser Icon**: Click the folder icon to open the Project Browser page. This will open a browser that conveniently allows you to search for Project Presets by type.

5. **Effects/Routing Tab**

- Effects tab shows currently selected Rack: A, B, C or D.
- Routing tab shows MAGMA Routing Page

MAGMA Routing Page:

1. **Rack FX Display**: Displays the FX you currently have loaded in Racks A, B, C & D.

2. **FX Slots:** Displays an overview of all FX currently loaded into Racks A thru D.

3. **Routing Matrix:** Click on one of the boxes to choose the order of the Racks and how the signal flow is processed. When you have at least one FX loaded in each rack you can drastically change the way a signal is processed by changing the routing order of the racks.

4. **Latency Report Meter**: Shows the total delay of all plug-ins loaded into MAGMA.

Loading/Saving Rack Presets: You can load and save your own Rack Presets by clicking on the drop down menu to the right of each Rack Display name. MAGMA comes equipped with factory Rack Presets so you can easily build your own Project configurations.

You can also load individual Plug-in FX directly from each Empty Slot and Save them as a Rack Preset for later use.

MAGMA FX Plug-ins

1. Amplifiers

Lead Guitar: All purpose lead guitar amp head for screaming solos and crunchy riffs. Use this at the top of your Rack to dirty up any sound whether its guitar, bass, synth or vocals. Pair it with Cabinet FX to achieve a rocking result in no time.

Controls:

- Drive: Adds drive and crunch to the input signal.
- Bass: Dial in more or less bass for your tone
- Middle: Dial in more or less mid frequencies for your tone.
- Treble: Dial in more or less treble for your tone.
- Presence: This control boosts the frequency response in the upper midrange.
- Master: Controls the amp's master volume.

2.Analysis

Spectrum Analyzer: This full range spectral analyzer allows you to view your audio source in real time. Reminiscent of some hardware analyzers from bygone days, this plug-in has been designed to give a smooth and accurate readout. Place it at the bottom of your Rack to see how MAGMA FX have effected your sound.

Controls:

- Calibrate: Adjusts the sensitivity of the plug-in. For an accurate read out, make sure you are not in the red.
- Out: This knob allows you to turn the volume up or down if necessary.

3.Cabinet

Yellow Cab: As it's name implies, Yellow Cab will always take you where you want to go, quickly and reliably. This cab isn't just one color though: It packs a punch with 25+ cabinet emulations to choose from. Choose from an assortment of different cab configurations to get the tone of your dreams. As a courtesy, we through in different Microphones and in our favorite positions. Now that's service.

Controls:

- In: Adjusts the input level.
- Bass: Adjusts the bass frequency response.
- Middle: Adjusts the midrange frequency response.
- Treble: Adjusts the treble frequency response.
- Cab: Choose from 29 different cabinet styles.
- Mic: Choose from 4 different Microphone/placement combinations.
- Stereo/Mono: Switch from stereo to mono cab.
- Out: Adjusts the output level

4.Delays

Radio Echo: Nothing can compare to the warm sound of a vintage delay and this plug-in rivals tape delay with its retro filters and crunchy drive. Time sync this puppy and crank up the feedback for some intense delay effects. If you are looking for that psychedelic 60's echo sound then look no further.

Controls:

- In: Adjusts the level of input.
- Lo Cut: Cuts all the low echo frequencies below the knob's value.
- Hi Cut: Cuts all the high echo frequencies above the knob's value.
- Q-Set: Adjusts the intensity of the Lo/Hi Cut curves.
- Dly-L: Adjusts the time of the left delay channel in beats/bars.
- Tempo: Turn this knob full left to sync Radio Echo to your host's master BPM. Turn this knob to the right to adjust the plug-ins internal BPM manually.
- Dly-R: Adjusts the time of the right delay channel in beats/bars.
- Feedback: Turn this up to repeat the echoes.
- Out: Adjusts the output level
- Drive > : Click here to switch the GUI to page 2 of the Radio Echo where you can access additional parameters:

- DI - Drive: Switches between drive being added to only the delay (wet) signal or to both the dry and wet signal.
- Drive: This knob adjusts the amount of drive applied to the echo.
- Width: Allows you to adjust the with of the stereo echo from narrow to wide.
- Mix: Allows you to mix between Dry and Wet signal. Increase this knob if you want to hear more echo.

BPM Delay: For musicians and producers who need a fabulous stereo, tempo-synched delay. BPM Delay is a dedicated tempo delay powerhouse that has 2 independently sync-able channels as well as drive and filter controls on the back.

Controls:

- In: Adjusts the level of input.
- Delay 1 Level: Adjust the volume of Delay 1.
- Delay: Adjusts the timing of Delay 1 in beats/bars.
- Pan: Adjusts the Pan of Delay 1.
- Delay 2 Level: Adjust the volume of Delay 2.
- Delay: Adjusts the timing of Delay 2 in beats/bars.
- Pan: Adjusts the Pan of Delay 2.
- Feedback: Turn this up to repeat the delays.
- More> : Click here to switch the GUI to page 2 of BPM Delay where you can access additional parameters:

- Drive: This knob adjusts the amount of drive applied to the delay.
- Lo Cut: Cuts all the low delay frequencies below the knob's value.
- Hi Cut: Cuts all the high delay frequencies above the knob's value.
- Mix: Allows you to mix between Dry and Wet signal. Increase this knob if you want to hear more delay.
- Out: Adjusts the output level

Super Echo: This unit is a super flexible stereo ping-pong delay unit with a hidden surprise up its sleeve. By clicking More to reveal extra parameters, you reveal Super Echo's secret weapon, the Reverse knob which allows you reverse echoes in realtime. The Result is an retro feel that works great on drums as well as lead guitar and vocals.

Controls:

- In: Adjusts the level of input.
- Echo 1 Level: Controls the level of echo 1
- Echo 1 Scale: Controls the timing of echo 1.
- Echo 1 Pan: Controls the pan of echo 1.
- Echo 2 Level: Controls the level of echo 2.
- Echo 2 Scale: Controls the timing of echo 2.
- Echo 2 Pan: Controls the pan of echo 2.
- Feedback: Turn this up to repeat the echoes.
- More: Reveals Super Echo's extra parameters.
- Out: Adjusts the output level

- Lo Cut: Cuts all the low echo frequencies below the knob's value.
- Hi Cut: Cuts all the high echo frequencies above the knob's value.
- Echo: Ping Pong causes the stereo echo to alternate left to to right. A setting of normal causes no ping pong effect.
- Reverse: Reverses the echoes in realtime causing a backwards effect.

5.Distortion

Fat Drive: When its time to fatten up a wimpy guitar or give that synth line a little more kick, Fat Drive is the weapon of choice. This bad-boy has just the right amount of tone and crunch to keep your ears satisfied. Based on solid state circuitry this transistor can smoothly go from 0 to 100 in no time.

Controls:

- In: Adjusts the level of input.
- Lows: Adjusts the amount of gain to the low frequencies.
- Mids: Adjusts the amount of gain to the mid frequencies.
- Highs: Adjusts the amount of gain to the high frequencies.
- Countour: Changes the shape of the distortion by adjusting the frequency range.
- Blend: Allows you to mix between Dry and Wet signal. Increase this knob if you want to hear more Fatness.
- Out: Adjusts the output level.

Flying Drive: A simple yet effective custom boost overdrive. This plug-in will give you the distortion you need to cut through a heavy mix. Launch your guitar solos into orbit when you flip the boost switch and dial in a soaring lead tone with ease.

Controls:

- In: Adjusts the level of input.
- Boost: Switches on the booster jets for extra distortion.
- Drive: Adjusts the amount of drive.
- Tone: Emphasizes a darker or brighter tone.
- Out: Adjusts the output level.

Full Fuzz: We're you alive during the 90's? Much of the grunge rock era can attribute its signature sound to the Fuzz pedal. Full Fuzz delivers a wall of harmonic rich distortion that will keep you jamming for hours. Throw on the boost to really make your tone sound dangerous.

Controls:

- In: Adjusts the level of input.
- Boost: Switches on the boost for added fuzz.
- Fuzz: Adjusts the amount of fuzz.
- Tone: Emphasizes a darker or brighter tone.
- Contour: Changes the shape of the distortion by adjusting the frequency range.
- Blend: Allows you to mix between Dry and Wet signal. Increase this knob if you want to hear more Full Fuzz action.
- Out: Adjusts the output level

Orange Tube: Orange of the most notorious colors in all of rock because it stands for Colored Valve Distortion. This compact plug-in version has legendary tone inside of it, waiting to be harnessed by a worthy player. This distortion can boost and sustain notes to infinity while also switching between two different vintage tube types.

Controls:

- In: Adjusts the level of input.
- Boost: Switches on the boost for added distortion.
- Sustain: Turn this up for added sustain to notes and sounds.
- Tone: Emphasizes a darker or brighter tone.
- Blend: Allows you to mix between Dry and Wet signal. Increase this knob if you want to hear more Orange Tube.
- 12AX7/EGG83: Switches between 12AX7 (American) which very musical tubes with air and sparkle at the top end, warmth in the mids, and great bass. The ECC83 (European) tubes are usually characterized by an impressive open "air" at the top end. The midrange is ruler flat, and the bass is tight and accurate.
- Out: Adjusts the output level

WurliDrive: The WurliDrive Electric Overdrive's name speaks for itself. If you are looking for a fine distortion/vibrato combination, then look no further. This distortion is perfect for creamy drive tones and has the deft ability to smoothly swirl notes around your head. If you are a fan of the Rhodes or Wurlitzer keyboard then you should definitely give this effect a whirl.

Controls:

- In: Adjusts the level of input.
- Overdrive: Adjusts the amount of drive.
- Tone: Emphasizes a darker or brighter tone.
- Modulation: Switches on the Tremolo or Pan effect.
- Pan / Trem: Turning this knob to the left gives you a panning effect while turning it to the right gives a trolo effect.
- Speed: Adjusts the speed of the Modulation effect. (Note this cannot be time synched).
- Out: Adjusts the output level.

Radio Drive: This Radio Filtered Overdrive is great for adding extreme filtered distortion to any track. If you are going for that old 20's style vocal sound or want to give your piano a vintage feel this plug-in will do the job. It also sounds great on guitar especially if you are going after that Keith Richards lead telecaster sound.

Controls:

- In: Adjusts the level of input.
- Drive: Adjusts the amount of drive.
- Resonance: Adjusts the Q of the Radio filter to produce more dramatic results.
- Lo Cut: Cuts all the low delay frequencies below the knob's value.
- Hi Cut: Cuts all the high delay frequencies above the knob's value.
- Out: Adjusts the output level.

Super Distortion: This unit is another flavor of distortion for you to sink your teeth into. It offers the ability to change the quality of the distortion as well as the Drive type from Classic to Tube.

Controls:

- In: Adjusts the level of input.
- Drive: Adjusts the amount of drive.
- Asymmetry: Adjusts the asymmetry of the distortion wave.
- Lows: Ads low frequency tones to your signal.
- Highs: Boosts Hi frequency tones to your signal.
- Quality: Increases the oversampling quality of the distortion effect.
- Drive Type: Choose between Classic, Tube 1 & 2.
- Out: Adjusts the output level.

6.Dynamics

Devil's Touch: This compressor will seduce you the moment you hear it. This plug-in has the pure characteristics of a Class A Vacuum Tube compressors, but with a touch of the devil to give it some bite. You will find that Devil's Touch works exceptionally well on most material: Guitars, Drums, Vocals and more. But be warned, to harness the power of this compressor you must pay the ultimate price - your soul!

Controls:

- In: Adjusts the level of input.
- Threshold: Adjusts the level above which the signal is compressed. A lower threshold increases compression which causes greater sustain.
- Ratio: Controls the amount of signal attenuation that happens when the compressor is triggered. Higher ratios cause greater amount of compression as well as less dynamic range.
- Attack: Controls the amount of time it takes the compressor to kick in. Slower (higher) attack settings preserve transients in drums or guitar picking.
- Release: Controls the amount of time the compressor takes to return to its normal state. Shorter release times can produce a choppier sound.
- Mix: Allows you to mix between Dry and Wet signal.
- Atten Meter: Shows the level of signal attenuation.
- Out: Adjusts the output level.

Max Limiter: This workhorse plug-in is a great sounding Maximizer/Limiter. You can use it to control your signal from overloading as well as extreme compression effects. Max Limiter gives you plenty of gain to boost your signal while ensuring that you never peak your output.

Controls:

- In: Adjusts the level of input.
- Gain: Sets the amount of gain added to maximize the signal.
- Ceiling: Limits the signal to the specified level at or below zero.
- Release: Controls the amount of time the limiter takes to return to its normal state. Longer release times will generally sound smoother, however it can produce unwanted artifacts.
- Out: Adjusts the output level.

Opto-Tube: Opto-Tube is an Electro-Optical Tube Limiter plug-in that emulates vintage hardware limiters like the famous Tube-Tech Compressor. The Opto-Tube can deliver clean, musical compression with out any undesirable side effects. It works great on just about anything, especially vocals, bass, guitars and keys by keeping it smooth without any unwanted mud or distortion.

Controls:

- In: Adjusts the level of input.
- Peak Reduction: Adjusts the amount of peak reduction. Higher values result in more compression.
- Time Response: Controls the amount of time the limiter takes to return to its normal state. Longer release times will generally sound smoother, shorter values will result in a more dynamic effect.
- Out: Adjusts the output level.

Spectra Gate: This plug-in ideally suited to drums and other percussive material as well as guitars and vocals. It offers a super-fast response time, stable triggering and freedom from chatter. Spectra Gate gate helps remove noise and hiss, but can also be used as a special effect.

Controls:

- In: Adjusts the level of input.
- Threshold: Adjusts the level above which the gate opens and below which it closes. A lower threshold is good for noise gating and a higher threshold will cause a gated, percussive effect.
- Attack: Controls the amount of time it takes the gate to close. Slower (higher) attack settings preserve transients.
- Hold: Adjusts the amount of time that the gate stays closed before it releases.
- Release: Controls the amount of time the gate takes to open. Shorter release times can produce a choppier sound.
- Range: Mixes between the dry and gated sound.
- Out: Adjusts the output level.

Tape Hammer: This plug-in emulates the type of compression that vintage tape machines form the 70's and 80's are famous for. You can hear the warm, natural sound of tape compression on countless classic rock albums like the Beatles, The Rolling Stones and Led Zepplin. Tape Hammer adds character and warmth to any track while adding color that even the most old school engineers can appreciate.

Controls:

- In: Adjusts the level of input.
- Saturation: Adds tape distortion to the signal.
- Color: Adjusts the color of the saturation from dark to bright.
- Compress: Adjusts the amount of compression.
- Attack: Controls the amount of time it takes the compression to kick in. Slower (higher) attack settings preserve transients.
- Release: Controls the amount of time the compressor returns to its normal state. Shorter release times can produce a choppier sound.
- Clip: Prevents clipping.
- Out: Adjusts the output level.

Tube Limiter: This plug-in brings the sound of a vintage tube limiter to the MAGMA rack. If you are looking to compress/limit your signal while adding some vintage tube tone, then this is the plug-in for you. The clipper allows you to pump it up while not overloading the signal.

Controls:

- In: Adjusts the level of input.
- Clipper: Prevents clipping by turning on the Brick Wall limiter.
- Threshold: Adjusts the level above which the signal is compressed/limited. A higher threshold increases limiting.
- Attack: Controls the amount of time it takes the limiter to kick in.
- Decay: Controls the amount of time the limiter returns to its normal state. Longer release times will generally sound smoother, shorter values will result in a more dynamic effect.
- Blend: Adjusts the Dry signal to Limited signal mix.
- Atten Meter: Shows the level of signal attenuation.
- Out: Adjusts the output level.

Devil's Boost: This plug-in does exactly what it claims to do: It is a Master Bus Loudness Maximizer. Devil's Boost is great for mastering, but try using it on a drum or vocal track, the results will be speak for themselves. Anything that needs a good boosting, Devil's Touch will give you the extra power you are seeking without distortion.

Controls:

- In: Adjusts the level of input.
- Boost: Boost the incoming singal up to 12db.
- Atten Meter: Shows the level of signal attenuation.
- Out: Adjusts the output level.

7.Equalizers

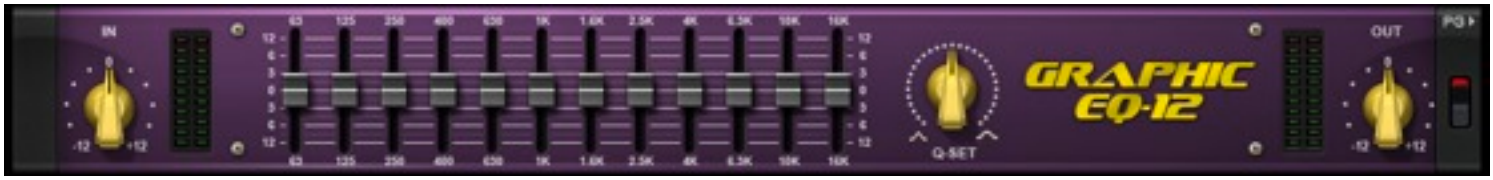
DJ X-Tone

: This 3 band equalizer will have you rocking the dance floor all night. Custom built for DJ style equalizing, this plug-in allows you to boost up to +12db or cut down to -36db. This allows for very natural control that you would expect from a professional DJ mixer.

Controls:

- In: Adjusts the level of input.
- Low: Boost or cut the Low frequencies.
- Mid: Boost or cut Mid frequencies
- Hi: Boost or cut High frequncies
- Out: Adjusts the output level.

Graphic EQ-12: Reminiscent of many old school graphic equalizers, the Graphic EQ-12 helps you accurately dial in the EQ curve you want. Carefully selected frequencies make this plug-in sound great on finished mixes as well as individual tracks. The Q-Set knob sets the width of all bands for additional tone sculpting.



Controls:

- In: Adjusts the level of input.
- Bands 1 thru 12: Boost or cut +/-12db at the specified frequency.
- Q-Set: Adjusts the width of each band.
- Out: Adjusts the output level.

Parametric EQ-1: Inspired by the simplistic hardware EQ's of the past, the single band Parametric EQ-1 makes it easy to boost or cut anywhere in the spectrum. Set the Q knob wider to boost/cut a range of frequencies or narrow the setting to discretely boost/cut with precision.

Controls:

- In: Adjusts the level of input.
- On/Off: Switches the plug-ins bypass on and off.
- Freq: Select from the full range frequencies you wish to boost or cut.
- Q: Adjusts the width of the band.
- Gain: Adjusts the gain of the selected Frequency.
- Out: Adjusts the output level.

Parametric EQ-2: The 2-band Parametric EQ-2 makes it easy to boost or cut anywhere in the spectrum. Choose a high and low frequency to manipulate. Now you can cut the unwanted low boom out of a vocal track while boosting the top end to give it sparkle. Set the Q knob wider to boost/cut a range of frequencies or narrow the setting to discretely boost/cut with precision.

Controls:

- In: Adjusts the level of input.
- Band 1: On or Off switch.
- Freq: Select from the full range frequencies you wish to boost or cut.
- Q: Adjusts the width of the band.
- Gain: Adjusts the gain of the selected Frequency.
- Band 2: On or Off switch.
- Freq: Select from the full range frequencies you wish to boost or cut.
- Q: Adjusts the width of the band.
- Gain: Adjusts the gain of the selected Frequency.
- Out: Adjusts the output level.

Retro EQ3: This 3-band Retro EQ is made to give you precise hands on control over a full spectrum of sound. Independently manipulate Lows, Mids and Highs with great accuracy and control. Widen the bands on your Lows and Highs for some extreme boosts whole taming the Mids. Each band is set to be musical and very useful.

Controls:

- In: Adjusts the level of input.

Low

- Freq: Select from 30Hz to 600Hz.
- Q: Adjusts the width of the band.
- Gain: Adjusts the gain of the selected Frequency.

Mid

- Freq: Select from 100Hz to 6kHz
- Gain: Adjusts the gain of the selected Frequency.

High

- Freq: Select from 1kHz - 16kHz
- Q: Adjusts the width of the band.
- Gain: Adjusts the gain of the selected Frequency.
- Out: Adjusts the output level.

Retro EQ4: This plug-in offers 4 musical bands of EQ with a fixed Q setting. Boost or cut Low, Low-Mid, Hi-Mid or High frequencies to your heart's content. Retro EQ4 offers some serious tone sculpting abilities with only a few knob turns.

Controls:

- In: Adjusts the level of input.

LF

- Gain: Adjusts the gain of the selected Low Frequency.
- Freq: Select from 40Hz to 150Hz.

LMF

- Gain: Adjusts the gain of the selected Low- Mid Frequency.
- Freq: Select from 250Hz to 2k

HMF

- Freq: Select from .3k to 8.2kHz
- Gain: Adjusts the gain of the selected High-Mid Frequency.

HF

- Freq: Select from 3.9k to 16k
- Gain: Adjusts the gain of the selected High Frequency.
- Out: Adjusts the output level.

Tone Shelf: This plug-in provides an interesting and very useful EQ configuration. Tone Shelf gives you a high shelf as well as a medium bell curve to process your signal. Additionally it offers a low end shel (boost only) and low end cut so you can get rid of unwanted rumble so you can really dial in your bass.

Controls:

- In: Adjusts the level of input.

Lows

- Freq: Select from 20Hz to 350Hz.
- Cut: Allows you to cut at the chosen frequency.
- Freq: Select from 35Hz to 240Hz.
- Boost: Allows you to boost the shelf at the chosen frequency.

Medium

- Freq: Select from .3k to 8.2k
- Gain: Adjusts the gain of the selected Mid Frequency.

Highs

- Freq: Select from 3.9k to 20k
- Gain: Allows you to cut/boost the shelf at the chosen frequency.
- Out: Adjusts the output level.

Graphic EQ-31: This is a professional eq that you would find on most professional PA systems or at a Broadcast TV or Radio Station. GEQ-31 gives you the most signal-sculpting control possible with 31 bands of equalization and the ability to boost or cut up to 12db

Controls:

- In: Adjusts the level of input.
- 31 Bands: Boost or Cut 12db in each band
- Out: Adjusts the output level.

8.Filters

Band-Pass Filter : This Plug-in is a very useful Band-pass filter that allows you to sweep through the entire frequency range. It focuses on only the selected frequency, cutting out everything below and above. Turn up the drive knob to add grit and more harmonics to the sound. Resonance will significantly boost the chosen frequency.

Controls:

- In: Adjusts the level of input.
- Drive: Adds distortion to the filter.
- Frequency: Allows you to sweep through the full frequency range.
- Resonance: Emphasizes the current frequency.
- Out: Adjusts the output level.

Hi-Pass Filter: HP Filter is a great sounding analog High-Pass filter that is great for cutting out low frequencies. You can use it as a sweeping Dj effect or just slap it on a guitar or vocal where you want to cut the low end rumble off.

Controls:

- In: Adjusts the level of input.
- Drive: Adds distortion to the filter.
- Frequency: Allows you to sweep through the full frequency range.
- Resonance: Emphasizes the current frequency.
- Out: Adjusts the output level.

Lo-Pass Filter: LP Filter allows you to easily sweep downward and cutoff all high frequencies of a signal. This is useful for DJ style FX or if you want to roll the top end off of any track. Boost the resonance to really make your sweep stand out or add drive to add distortion and harmonics.

Controls:

- In: Adjusts the level of input.
- Drive: Adds distortion to the filter.
- Frequency: Allows you to sweep through the full frequency range.
- Resonance: Emphasizes the current frequency.
- Out: Adjusts the output level.

Moogfer Sweeper: This plug-in offers that analog auto-filter sound. It's great for adding some movement and funk to a track. Lo-Pass sweeper sounds especially great on guitar and keys. Sync it to your host tempo or let it go wild.

Controls:

- In: Adjusts the level of input.
- Sync: Synchronizes the sweeper rate to your host tempo.
- Rate: Adjusts the rate of the sweeper effect.
- Width: Adjusts the width of the sweeper effect.
- Range: Selects the frequency range of the sweeper.
- Resonance: Emphasizes the current frequency.
- Blend: MIxes between dry and wet signal.
- Out: Adjusts the output level.

Presence Booster: One knob to rule them all. The Presence Booster works exactly as advertised: It boosts the presence of any signal at 8kHz. This can be very useful if you want to make a vocal brighter or give a solo more top end to cut through a mix.

Controls:

- In: Adjusts the level of input.
- Boost: Boosts the signal up to 12db at 8kHz
- Out: Adjusts the output level.

Presence Filter: This is the big brother of the Presence Booster. It allows you to choose which mid-range frequency you want to boost or cut and you also have control over the Q of the filter. Additionally, Presence Filter give you a High and Low pass filters for extra tone shaping.

Controls:

- In: Adjusts the level of input.
- High Pass: Engages the High-pass filter.
- Frequency: Chooses the Mid-range frequency
- Narrow Band Switch: Narrows the band of the frequency
- Presence: Boosts or cuts the selected frequency.
- Low Pass: Engages the Low-pass filter.
- Out: Adjusts the output level.

Frog Filter: This plug-in will make you jump out of your chair. Frog Filter is a multi-filter processor that comes 23 different filter types and 7 types of overdrive. The result is a massive filter bank that has endless applications. Don't let this filter's simple appearance fool you: it may seem simple on the outside, but inside this frog is a beast.

Controls:

- In: Adjusts the level of input.
- Overdrive: Adjust the amount of overdrive on the filter.
- OD Selector: Select from 7 Different types of Overdrive:
    - Hyperbolic, Soft Clip, Hard Clip, Asymmetric 1, 2 & 3, and Sine Shaper.
- Frequency: Adjusts the frequency of the filter
- Resonance: Adjusts the resonance of the filter.
- Filter Type: Selects the type of filter:
    - Analog LP 1&2, Low Pass 4, Band Pass 4, High Pass 4, Low Pass 2, Band Pass 2, High Pass 2, Acid LP & BP, Band Bass 8, Formant, All Pass 2, 4 & 8, Notch, Peak, Low Shelf, High Shelf, Low Pass 6db, Comb +/-, Bell Comb.
- Blend: MIxes between dry and wet signal.
- Out: Adjusts the output level.

9.Generators

Sweep Generator: This is a popular tool that sound engineers use to test their equipment. It generates a tone and you can specify where it start and where it ends. You can change the sweep mode from Log to Step to Linear and also loop the sound. Try running it through some modulation or distortion for crazy FX results.

Controls:

- In: No Function
- Level: Adjusts the level of the sweep volume. WARNING - high volumes can damage your speakers and ears.
- Start Freq: Allows you to choose starting frequency of the sweep.
- Start Freq: Allows you to choose ending frequency of the sweep.
- Duration: Determines how long the sweep will last.
- Sweep Mode: Choose from Step, Log and Lin
- Sweep Play: Triggers one sweep.
- Loop: Loops the sweep.
- Out: Adjusts the output level.

Tone Generator: Yet another useful tone generator device. This plug-in generates a Sine tone at the specified frequency. It also creates white and pink noise. You can choose which output the tone/noise comes out of to test your signal path.
Controls:

- In: Adjusts the level of input.
- Level: Adjusts the level of the tone generator. WARNING - high volumes can damage your speakers and ears.
- Frequency: Allows you to choose the frequency of the Sine Tone.
- Fine Tuning: Fine Tunes the Sine ton by +/- 10 cents.
- Waveform: Choose between a Sine Tone, Pink or White Noise.
- Out Select: Outputs the tone either Stereo, Left or Right.
- Power: Triggers the tone.
- Out: Adjusts the output level.

10.Harmonic

Claritone: Welcome to Harmonic enhancement at its finest. The Claritone is an all purpose enhancer that can fatten your bass, strengthen a chorus or add clarity and sparkle to a vocal performance. Claritone makes it easy to get musical results with the quick turn of a knob.

Controls:

- In: Adjusts the level of input.
- Sub-Bass: Adjusts the volume of the sub frequencies.
- Sub-Tune: Allows you to select the sub frequency to be boosted.
- Fullness: Boosts the warm mid-range frequencies.
- Clarity: Adds top end frequencies to the signal.
- Clipper: Prevents Claritone from clipping the outputs.
- Meter: Shows the amount of attenuation when the clipper is enabled.
- Out: Adjusts the output level.

Fat-Bass: This plug-in is designed for one purpose only: to make your bass FAT. It uses special psycho acoustic harmonics to deliver thunderous bass tones. The Fat-Bass uses sub-harmonic generation that can be tuned to a desired frequency. The result is a tight and less muddy extended low end.

Controls:

- In: Adjusts the level of input.
- DIrect: Mixes in the dry signal with the Fat-Bass.
- Fat-Bass: Mixes in the Fat-Bass sound.
- Frequency: DIals in the sub bass frequency.
- Bandwidth: Determines the width of the sub-bass tone that is being generated.
- Out: Adjusts the output level.

Stereo Imager: This plug-in uses Psycho Acoustic Spatial Imaging to widen your stereo image up to 200%. You can also go the opposite direction and make your signal completely mono. Stereo Imager works great on everything from guitars, to background vocals, to entire mixes.

Controls:

- In: Adjusts the level of input.
- Stereo Width: Use this slider to expand the stereo width of the signal.
- Rotation: You can use this knob to offset the panning left or right.
- Out: Adjusts the output level.

Stereo Maker: This plug-in is made for Mono sources such as guitar or vocals. Stereo Maker uses imaging simulation to turn any mono source into a nice, wide stereo sound. Try it out on your favorite mono sounds and see what happens.

Controls:

- In: Adjusts the level of input.
- Stereo Width: Use this slider to expand the stereo width of the signal.
- Balance: You can use this knob to offset the panning left or right.
- Out: Adjusts the output level.

11.Modulation

Autopan: This panning device can sync to your host tempo and generate many different types of panning FX. Use it for a slow, creeping stereo pan or do some extreme gating effects. Autopan sounds great on keys, synths and guitars.

Controls:

- In: Adjusts the level of input.
- Sync: Turns on synchronization with your host tempo.
- Speed: Adjusts the speed of the Autopan in milliseconds or BPM.
- Depth: Controls the depth of the effect.
- Shape: Choose from five different wave shapes: Sine, Triangle, Square, Saw 1 & 2.
- Tone: Changes the color of the effect from dark to bright.
- Out: Adjusts the output level.

MFX-Chorus: This classic effect has never sounded better. MFX-Chorus ranges from silky-smooth tones to downright weird modulations. Synch able LFO speed as well

as the ability to switch from chorus to vibrato make this a plug-in a go effect.

Controls:

- In: Adjusts the level of input.
- Sync: Turns on synchronization with your host tempo.
- Speed: Adjusts the speed of the Autopan in milliseconds or BPM.
- Depth: Controls the depth of the effect.
- Shape: Choose from two different shapes: Sine and Triangle.
- Dimension: Adds subtle stereo imaging.
- Chorus/Vibrato: Switches between Chorus and Vibrato effect.
- Out: Adjusts the output level.

MFX-Flanger: Another classic effect that never gets old. Wether its a guitar, vocal or drum track, MFX-Flanger can make anything shine and soar like a jet. It's host-synch able speed and spread control give this effect a nice modern twist. This plug-in can deliver both subtle and extreme tones.

Controls:

- In: Adjusts the level of input.
- Sync: Turns on synchronization with your host tempo.
- Speed: Adjusts the speed of the Autopan in milliseconds or BPM.
- Depth: Controls the depth of the effect.
- Tone: Changes the color of the effect from dark to bright.
- Feedback: Causes the intensity of the flange effect to increase with draatic results.
- Spread: Adds stereo imaging.
- Mix: Mixes between dry and wet signal.
- Out: Adjusts the output level.

MFX-Phaser: Everyone loves a good Phaser. MFX-Phaser is everything you would expect from a modern phaser and more. This plug-in features sync able speed, multi-stage phasing, spread and additional bite features. Plug the MFX-Phaser in and prepare to melt.

Controls:

- In: Adjusts the level of input.
- Sync: Turns on synchronization with your host tempo.
- Speed: Adjusts the speed of the Autopan in milliseconds or BPM.
- Depth: Controls the depth of the effect.
- Stage: Increases the amount of stages of the phase shifter.
- Resonance: Causes the intensity of the phaser effect to increase.
- Spread: Adds stereo imaging.
- Bite: Makes the phaser sound more dirty and aggressive.
- Out: Adjusts the output level.

Retro Flanger: The Retro Flanger has an unmistakable tone that will bring you back to the moment you bought your first guitar pedal. It's true, most people didn't start making music on their computer. Retro flanger captures the true essence of the old school flanger sound, complete with sync able rate as well as a delay to give you out of this world metallic tones.

Controls:

- In: Adjusts the level of input.
- Rate: Adjusts the speed of the Flanger in milliseconds or BPM.
- Depth: Controls the depth of the effect.
- Sync: Turns on synchronization with your host tempo.
- Delay: Adds up to 50 milliseconds of delay to the flanger tone.
- Feedback: Causes the intensity of the flanger effect to increase.
- Invert: Reverses the polarity of the flanger effect.
- Out: Adjusts the output level.

- Dirty: Adds distortion to the effect.
- Tone: Determines the color of the effect from Dark to Bright.
- Tone to Dry: This switch processes the dry signal through the tone control.
- Width: Adjusts the stereo image of the effect.
- Mix: Mixes between dry and wet signal.
- Out: Adjusts the output level.

Retro Phaser: The Retro Phaser has a signature sound that is known worldwide. If you want silky-smooth phase shifting reminiscent of the Mutron bi-phase, then this is the plug-in for you. Adjust the amount of Poles and Freq Set knob to get deep and creamy phasing tones for your guitar, keys, or vocal parts.

Controls:

- In: Adjusts the level of input.
- Rate: Adjusts the speed of the Phaser in milliseconds or BPM.
- Depth: Controls the depth of the effect.
- Sync: Turns on synchronization with your host tempo.
- Poles: Increases the amount of poles of the phase shifter.
- Freq-Set: Sets the base frequency that the Phaser revolves around.
- Feedback: Causes the intensity of the phaser effect to increase.
- Invert: Reverses the polarity of the phaser effect.
- Out: Adjusts the output level.

- Dirty: Adds distortion to the effect.
- Tone: Determines the color of the effect from Dark to Bright.
- Tone to Dry: This switch processes the dry signal through the tone control.
- Width: Adjusts the stereo image of the effect.
- Mix: Mixes between dry and wet signal.
- Out: Adjusts the output level.

Tremolo: Tremolo is the cornerstone of any effects rig. This plug-in comes equipped with a great tone feature as well as a changeable shape for additional sonic sculpting. This classic effect sounds especially good on guitars and keys.

Controls:

- In: Adjusts the level of input.
- Sync: Turns on synchronization with your host tempo.
- Speed: Adjusts the speed of the Tremolo in milliseconds or BPM.
- Depth: Controls the depth of the effect.
- Shape: Choose from five different wave shapes: Sine, Triangle, Square, Saw 1 & 2.
- Tone: Changes the color of the effect from dark to bright.
- Out: Adjusts the output level.

Vibrato: Vibrato is also an essential effect for musicians looking to vary their sound by fluctuating the pitch. This plug-in sounds amazing on guitars as well as electric piano. With Vibrato, you can dial in subtle oscillation or get really crazy pitch bending sounds. with ease.

Controls:

- In: Adjusts the level of input.
- Sync: Turns on synchronization with your host tempo.
- Speed: Adjusts the speed of the Vibrato in milliseconds or BPM.
- Depth: Controls the depth of the effect.
- Tone: Changes the color of the effect from dark to bright.
- Pitch: Adds additional pitch vibrato to your signal.
- Out: Adjusts the output level.

Phase Shifter: This phaser is another unique version of a classic effect. Phase Shifter gives you a “Mouth” control which can produce distinct vocal characteristics. Try using this plug-in on guitar or anything percussive and discover the world of Phase shifting.

Controls:

- In: Adjusts the level of input.
- Sync: Turns on synchronization with your host tempo.
- Rate: Adjusts the speed of the effect in milliseconds or Beats/Bars.
- Freq: Controls the center frequency of the phaser.
- Mouth: Changes the formant of the phaser producing unique vocal tones.
- Resonance: Controls the strength of the effect.
- Spread: WIdens the Phaser for a larger stereo effect.
- Out: Adjusts the output level.

Super Flanger: This Flanger has a unique flavor of its own. The plug-in has more of a modern twist with the ability to spread the flange signal and delay them as well. The result is a spacey metallic tone that will add an extra edge to your tracks.

Controls:

- In: Adjusts the level of input.
- Sync: Turns on synchronization with your host tempo.
- Rate: Adjusts the speed of the effect in milliseconds or Beats/Bars.
- Depth: Controls the depth of the effect.
- Lo Cut: Reduces the amount of low frequencies.
- Feedback: Controls the strength of the effect.
- Spread: WIdens the Flanger for a larger stereo effect.
- Out: Adjusts the output level.

Pitch Detune: This effect detunes your input signal and mixes it back in with the original. The Result is a frequency shift/ring modulator sounding effect that can give your tracks cool overtones or subtle harmonic flavors.

Controls:

- In: Adjusts the level of input.
- Normal/Extreme Switch: Flips the frequency of the Pitch from Low to High.
- Shifting: Controls the frequency of the shifter from 15 to 1000 Hz.
- Balance: Adjusts the tone of the shifter to produce lower or higher tones.
- Blend: Adjusts the amount of effect.
- Out: Adjusts the output level.

Super Chorus: This Chorus effect has a rich, mellow sound that sounds great on just about anything. It has a great sounding stereo widener effect that makes anything you put through it sit nicely in the stereo field.

Controls:

- In: Adjusts the level of input.
- Sync: Turns on synchronization with your host tempo.
- Rate: Adjusts the speed of the effect in milliseconds or Beats/Bars.
- Depth: Controls the depth of the effect.
- Lo Cut: Reduces the amount of low frequencies.
- Delay: Slightly delays the chorus effect to give the sense of more voices.
- Stereo: WIdens the chorus for a larger stereo effect.
- Mix: Adjusts the amount of effect.
- Out: Adjusts the output level.

Super Tremolor: This plug-in is Tremolo on a whole new level. Its specialty resides in its ability to choose from many different Tremolo wave shapes and then dtermine how hard that shape sounds. On top of that, using the gate can take your sound to a whole new dimension by chopping the sound up into rhythmic fragments.

Controls:

- In: Adjusts the level of input.
- Sync: Turns on synchronization with your host tempo.
- Rate: Adjusts the speed of the effect in milliseconds or Beats/Bars.
- Stereo: WIdens the chorus for a larger stereo effect.
- Edge: Determines the hardness of the shape.
- Gate: Cuts the signal to give you extreme choppy effects.
- Shape: Choose from Sine, Triangle, Saw Up & Down, Exponent, Log and Square shapes.
- Mix: Adjusts the amount of effect.
- Out: Adjusts the output level.

12.Reverbs

Plate-Verb: A plate reverb system uses an electromechanical transducer similar to the driver in a loudspeaker, to create vibration in a large plate of sheet metal. A pickup captures the vibrations as they bounce across the plate, and the result is output as an audio signal. Plate-Verb emulates the sound of classic units and makes it easy to get cavernous metallic reverb sounds.

Controls:

- In: Adjusts the level of input.
- Pre-Dly: Adjusts the amount of reverb pre-delay.
- Rev-Time: Increases the decay of the reverb time.
- Color: Changes the color of the reverb sound from darker to brighter.
- Width: Adjusts the stereo width of the reverb effect.
- Mix: Adjusts the balance between dry and wet signal.
- Out: Adjusts the output level.

Reverb One: This modern reverb unit sounds great and is extremely flexible. On the front panel it comes with all of the mainstay features like Pre-delay, room size and reverb time, but when you flip it to the back you have a full EQ and tuning system for increased tonal sculpting. This plug-in should be your go-to verb when you need something clean and versatile.

Controls:

- In: Adjusts the level of input.
- Pre-Dly: Adjusts the amount of reverb pre-delay.
- Room-Size: Increases the size of the room sound.
- Rev-Time: Increases the decay of the reverb time.
- Rolloff: Rolls off low frequencies below the specified value. This helps eliminate rumble.
- Density: Lower densities give more space between the reverb's first reflections and subsequent reflections. Higher densities place these closer together. Generally, higher densities work well on percussive content, and lower densities work best for vocals and sustained sounds.
- Mix: Adjusts the balance between dry and wet signal.
- Out: Adjusts the output level
- More: Switches to the backside of the unit to access additional parameters.
- Balance: Mix between early reflections and the reverb tail sound.

- Bandwidth: Narrows or widens the shape of the reverb frequency response.
- Focus: Emphasizes mid-range frequencies.
- Clarity: Emphasizes high frequencies.
- Tuning: Tunes the base frequencies of the Focus and Clarity knobs.
- Separation: Gives the reverb sound more stereo width.

MFX-Spring: A spring reverb system uses a spring and a pickup to create and capture vibrations. Guitar amps frequently incorporate spring reverbs and many musicians have made use of spring reverb units by rocking them back and forth, creating a thundering, crashing sound. MFX-Spring gives you up to 3 springs to play with as well as a stereo widener and EQ section.

Controls:

- In: Adjusts the level of input.
- Springs: Choose the number of springs.
- Tone: Adjust the tone of the reverb between dark and bright.
- Width: Adjust the width of the spring verb from mono to wide stereo.
- Bass: Boost or cut low frequencies
- Treble: Boost or cut high frequencies.
- Mix: Adjusts the balance between dry and wet signal.
- Out: Adjusts the output level

Studio-Room: This handy plug-in models the acoustic properties of a class-a recording studio tracking room. When you are looking for a tight, warm room reverb sound, Studio Room delivers. You can adjust the color of the room and the size with ease... try doing that in the real world.

Controls:

- In: Adjusts the level of input.
- Color: Changes the color of the room sound from darker to brighter.
- Room Size: Adjust the slider to increase or decrease the size of the room.
- Blend: Adjusts the balance between dry and wet signal.
- Out: Adjusts the output level.

Purple Verb: This reverb is an amazing sounding unit that is a go-to peice of gear when ever you are looking for lush, epic sounding reverb. Add it for subtle flavoring or crank it up and blast off to outer space. This Reverb does it all AND it looks cool too.

Controls:

- **I**n: Adjusts the level of input.
- Pre-Dly: Adjusts the amount of reverb pre-delay.
- Size: Increases the size of the room sound.
- Decay: Adjust the decay of the reverb all the way up to infinity.
- Rev-Time: Increases the decay of the reverb time.
- Low Cut: Rolls off low frequencies below the specified value. This helps eliminate rumble.
- Low Cut: Rolls off high frequencies above the specified value. This helps get dampen your reverb tone.
- Rate: Adjusts the amount of Pitch modulation.
- Depth: Adjusts the depth of Pitch modulation.
- Mix: Adjusts the balance between dry and wet signal.
- Out: Adjusts the output level

13.Special

Destructor: This plug-in is not something you want to take home to mama. Destructor is a nasty Bit Crusher that creates filthy lo-fi sounds everywhere it goes. This effect can be very useful for DJ's as well as experimental sound designers and guitarists.

Controls:

- In: Adjusts the level of input.
- Crusher: Lowers the Bit Rate
- Noise: Adds noise to the bit crusher
- Decimator: Lowers the Sample Rate
- Stereo: Allows you to widen the effect in the stereo field.
- Out: Adjusts the output level.

ChromaZone: This plug-in is a cool resonator that has tone for days! You can easily determine a 3 part chord by selecting the note interval and then transposing it to the key of your song. Try this unique plug-in on drums and percussion for exotic, robotic sounds. Turn the decay up for long tonal drones.

Controls:

- In: Adjusts the level of input.
- Note: Select 3 separate notes to form the resonator chord of your choice.
- Transpose: Adjust the pitch of the resonator tone.
- Fine Tune: Adjust the fine tuning of the resonator tone to get notes between notes.
- Decay: Determine the length of the resonator - how long resonates.
- Color: Determines if the resonator tone is more dark or bright.
- Blend: Adjusts the balance between dry and wet signal.
- Out: Adjusts the output level

Insanulator: This plug-in is a new Grain Delay concept that will melt your brain. When you want to create new sounds that have never been heard before, then reach for the Insanulator. Control the grain size and pitch to create crazy mind-warping effects.

Controls:

- In: Adjusts the level of input.
- Size: Adjusts the size of the Grain delay.
- Width: Controls the window that Grain delay is sampling.
- Feedback: Controls the strength of the effect.
- Tuning: Tunes the grain delay effect.
- Random: Randomizes the pitch of the grain delay effect.
- Blend: Adjusts the amount of effect.
- Out: Adjusts the output level.

Trance Gate: This plug-in is a great way to chop up your audio on the fly and create rhythmic gated effects. Simply activate the steps that you want to hear and and Trance Gate will rhythmically remove the steps that you leave out. There is also a stereo mode which allows you to independently sequence the the gate on both left and right channels.

Controls:

- Mix: Adjusts the amount of effect.
- Steps 1-32: Input steps on the top row to hear the Trance Gate in action. The bottom row is for Stereo mode only.
- Steps: Choose how many steps you want to gate to create different length loops.
- Scale: Change the resolution of the the steps to gate notes in 1/16, 1/8, 1/4, dotted and triplet note values.
- Smooth: Smooths out the gate so the effect is less choppy sounding.

14.Utility

Phase Inverter: This utility plug-in inverts the phase independently on both left and right channels. This can be useful when you are using MAGMA project patches with multiple racks. Sometime flipping the phase on one rack can eliminate phase cancelation and make your tracks more present.

Controls:

- In: Adjusts the level of input.
- Phase Invert L: Switch between normal and inverted phase on the left channel.
- Phase Invert R: Switch between normal and inverted phase on the right channel.
- Out: Adjusts the output level.

Stereo Reducer: Sometimes you want to take a stereo signal and reduce its wideness. With one slider, Stereo Reducer can take a stereo track all the way down to mono in less than a second. Use the additional panning knob to offset your track in the mix.

Controls:

- In: Adjusts the level of input.
- Stereo Reducer: Use this Slider to reduce Stereo tracks to Mono.
- Panning: Offset your track in the mix.
- Out: Adjusts the output level.